

## Claims

1. An electric motor, for powering downhole tools, comprising a stator and a rotor connectable to a rotatable device, a permanent magnet and a series of coiled windings or laminations having a connection to a DC supply, the permanent magnet and the laminations being arranged annularly with respect to each other, characterised in that the laminations and coil windings are potted in a potting material impervious to wellbore fluids.
2. An electric motor according to claim 1, wherein the potting material is introduced under a vacuum.
3. An electric motor according to any previous claim wherein there is included a motor housing which confines the potting material.
4. An electric motor according to any previous claim wherein the wiring is provided that exits from the potted material through a metal clad tube, onto which an O ring seal can be used.
5. An electric motor assembly comprising two or more electric motors according to any previous claim secured in series.
6. An electric motor assembly according to claim 6, wherein the motor electric motors are secured together before the potting material is introduced.